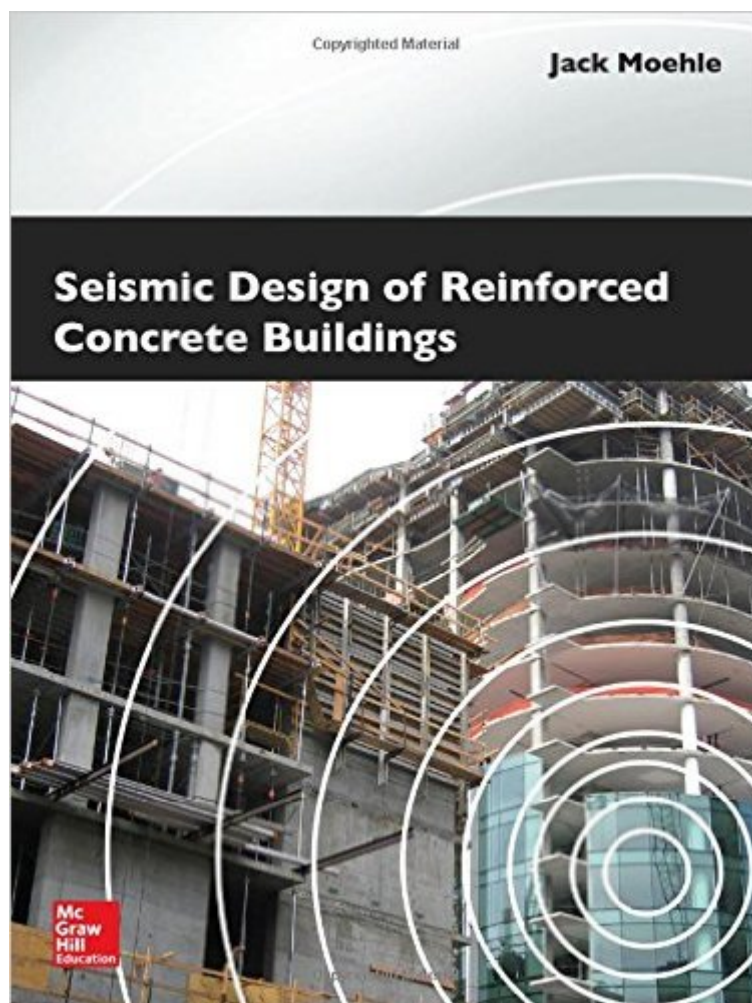


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# Seismic Design Of Reinforced Concrete Buildings



## Synopsis

Complete coverage of earthquake-resistant concrete building design Written by a renowned seismic engineering expert, this authoritative resource discusses the theory and practice for the design and evaluation of earthquakeresisting reinforced concrete buildings. The book addresses the behavior of reinforced concrete materials, components, and systems subjected to routine and extreme loads, with an emphasis on response to earthquake loading. Design methods, both at a basic level as required by current building codes and at an advanced level needed for special problems such as seismic performance assessment, are described. Data and models useful for analyzing reinforced concrete structures as well as numerous illustrations, tables, and equations are included in this detailed reference. Seismic Design of Reinforced Concrete Buildings covers: Seismic design and performance verification Steel reinforcement Concrete Confined concrete Axially loaded members Moment and axial force Shear in beams, columns, and walls Development and anchorage Beam-column connections Slab-column and slab-wall connections Seismic design overview Special moment frames Special structural walls Gravity framing Diaphragms and collectors Foundations

## Book Information

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## Customer Reviews

I used this book as the textbook for my graduate course: "Earthquake-Resistant Design of Reinforced Concrete Structures" in addition to ACI 318 Building Code, ASCE 7, and my own handouts. I read most chapters of the book while teaching the course. Compared to other books such as Paulay and Priestly's "Seismic Design of Reinforced Concrete and Masonry Building" or

Englekirk's "Seismic Design of Reinforced and Precast Concrete Buildings", this book is much easier to understand and to self-study. It provides solid background of the seismic provisions in ACI 318 and well explains the details of the seismic design requirements in ACI 318, which makes it an excellent book for anyone would like to know the current seismic design practice of reinforced concrete buildings in the U.S. This book provides very systematic summary of past research results on the behavior of reinforced concrete members under cyclic loadings such as beams, beam-column joints, columns, slender and squat walls, coupling beams, slab-column connections, and diaphragms. The book also provides very thorough review of the concrete confinement, shear, and bond behavior under seismic loading. In addition to materials related to cyclic behavior or seismic design of reinforced concrete members, this book also provides many fundamental and advanced topics such as concrete and steel's properties, moment & axial force interaction, moment-curvature response of typical beams, shear, strut-and-tie models, development and anchorage etc. so it can actually be used as a textbook or reference for a regular reinforced concrete course. A few highlights and suggestions:1.

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